

## BIBLIOGRAPHY

C. FITZHUGH TALMAN, *in Charge of Library*

## RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies.

## Alix, A.

Quelques testes relatifs à l'existence des glaciers alpins et aux avalanches du XI<sup>e</sup> au XVI<sup>e</sup> siècles. (*In Arctowski, H., ed. Zbiór prac, poświęcony przez Towarzystwo geograficzne we Lwowie. Eugeniuszowi Romerowi w 40-lecie jego Twórczości naukowej.* 1934. p. 319-333.)

## American geophysical union.

Fifteenth annual meeting. Transactions. April 26, 27, 28, 1934. Wash., D. C., and Berkeley, Calif. Wash. 1934. 646 p. (2 v.) illus., maps, tables, diagrs. 25 cm.

## American polar year expedition, 1932-1933. Radio section.

Report. 6 March 1934. Wash., D. C. 1934. 12 p. 4 tab., 15 pl. (part phot.) 28½ cm. (Navy dept. Bureau of engineering. Report No. H-1032. Naval research laboratory, Bellevue, D. C.)

## Arctowski, H., ed.

Zbiór prac, poświęcony przez Towarzystwo geograficzne we Lwowie. Eugeniuszowi Romerowi w 40-lecie jego twórczości naukowej. Lwów. 1934. 643 p. illus., pls., loose (some fold.) 25½ cm.

## Biel, Erwin.

Probleme der schlesischen Klimatologie. Breslau. 1934. p. 333-350. 2 pl. 24½ cm. (Sonderdruck: Vom deutschen Osten. Max Friederichsen zum 60. Geburstag, herausg. von Herbert Knothe.)

## Chu, Coching.

Circulation of atmosphere over China. Nanking. 1934. 55 p. tables. 26½ cm. (Memoir of the Nat'l research inst. of met'y. No. 4) [Chinese and English texts.]

## Commission belge de l'Année polaire 1932-1933.

Mémoires . . . Bruxelles. 1932. Fasc. 4. (Mai 1934.) Technique des sondages à deux théodolites, by Lucien Poncelet. 59 p. figs. 25 cm.

## De Martonne, E.

La formule de l'indice d'aridité. (*In Arctowski, H. Zbiór prac . . .* p. 357-364.)

## Dufay, J.

Observation du spectre d'émission du ciel nocturne dans l'ultraviolet. n. d. (Publications de l'Observatoire de Lyon. Tome I. Série 1. Astronomie. Fasc. 9.) 4 p. tables, diagr. 27 cm. (Extraits de "Le Journal de physique et le radium", Octobre 1934. Série VII, Tome V, N° 10, pp. 523-532.)

## Gautier, Émile Félix.

Sahara, the great desert. Authorized translation by Dorothy Ford Mayhew . . . with a foreword by Douglas Johnson. New York. 1935. xvii, 264 p. front., illus., plates, maps (1 fold.) 24½ cm.

## Gauzit, J.

L'extrémité ultraviolette du spectre du ciel nocturne. n. d. (Publ. de l'Observatoire de Lyon. Tome 1. Sér. I. Astronomie. Fasc. 9.) p. 5-10. tables, diagrs. 27 cm. (Extraits de "Le Journal de physique et le radium". Octobre 1934. Série VII, Tome V, N° 10, pp. 523-532.)

## Goldberg, J., &amp; Kovačević, M.

Der Schlammlregen in Jugoslavien am 3. and 4. Mai 1933. (Ein Beitrag zur Kenntnis des Scirocco und der Mittelmeerzyklonen.) Zagreb. 1934. 14 p. fig. 27½ cm. (S. A. "Kroatische geographische Zeitschrift." Zagreb, No. 5, 1934. Aus dem geophysik. Inst. in Zagreb.)

## Gorczyński, Władysław.

O rozgraniczaniu typów klimatycznych i o brakach klasyfikacji Köppena w stosunku do Europy i Polski. (*In Arctowski, H. Zbiór prac . . .* 1934. p. 338-356.)

## Hachey, H. B.

The weather man and coastal fisheries. Wash. 1934. pp. 382-389. maps, diagr. 23 cm. (Repr.: Trans. Amer. fisheries socy. v. 64. 1934.)

## Hamburg. Deutsche Seewarte.

Zur Statistik der Stürme an der deutschen Küste. Beobachtungsjahr 1933. 1. Jahrg. Hamburg. 1934. 33½ cm.

## International commission for synoptic weather information.

Report of the ninth meeting, De Bilt, May 12th-18th, 1934. Utrecht. 1935. 212 p. pl., tables (some fold.) 24½ cm. (Sec. de l'Organ. mét. intern. No. 19.)

## International commission for the exploration of the upper air.

Protokolle der Sitzungen in Friedrichshafen, 30. August bis 4. September 1934. Leyden. 1935. 167 p. 3 pl., 1 fold. map, tables (1 fold.), diagrs. 24½ cm. (Sec. de l'Organ. mét. intern. No. 21.)

## International meteorological committee.

Procès-verbaux des séances de De Bilt, 4-7 octobre 1933. Utrecht. 1934. 133 p. 24½ cm. (Sec. de l'Organ. mét. intern. No. 17.)

## International meteorological organization.

Listes des stations climatologiques. 1. Europe. Utrecht. 1935. 182 p. tables. 24 cm. (Sec. de l'Organ. mét. intern. No. 22.)

Notice sur le plan international des transmissions en mer. Utrecht. 1934. 126 p. 24½ cm. (Sec. de l'Organ. mét. intern. No. 18.)

Conference of directors, Warsaw, 1935. Informations sommaires sur le voyage et séjour en Pologne. Varsovie. 1935. 26 p. tables. 21½ cm.

Secrétariat. I. Comptabilité de l'année financière 1933-1934. II. Rapport sur les travaux du Secrétariat pendant l'année 1933-1934. De Bilt. 1934. 11 p. 24½ cm.

## Koláček, Fr.

L'influence de l'activité humaine sur le climat de la Moravie et de la Silésie. (*In Arctowski, H. Zbiór prac . . .* 1934. p. 365-376.)

## La Cour, D.

L'année polaire internationale 1932-1933. Les buts, les méthodes et quelques résultats préliminaires. (Address delivered before the General assembly at Brussels, 1934.) Lond. 1934. p. 191-207. 1 pl. 24½ cm. (Conseil international des unions scient., 1934.)

## Lehmann, Hans.

Die Wirkung des Staubes auf den menschlichen Organismus, seine Bedeutung für die Volksgesundheit und sein Nachweis nach hygienischen Grundsätzen. Berlin-Dahlem. n. d. p. 254-315. illus., plates, diagrs. 23½ cm. (Kleine Mitteil. des Vereins für Wasser-, Boden- und Lufthygiene E. V. 10. Jahrg. 4. Berliner Heft. Nr. 9/13. Berlin-Dahlem, Aug.-Nov. 1934.)

## Lehmann, Hans., &amp; others.

Das Zeitzsche Freiluftkomimeter. Eine neue nach hygienischen Grundsätzen arbeitende Apparatur zur Staubbestimmung in der Luft. München & Berl. n. d. 16 p. illus. 24 cm. (Aus der Preuss. Landesanst. für Wasser-, Boden- und Lufthygiene in Berlin-Dahlem und der Firma Carl Zeitz in Jena.) (Sonderdr. Archiv für Hygiene, 1934, Bd. 112, S. 141.)

## Loewe, Fritz.

Klima des Kanadischen Archipels und Grönlands. III. Klima des Grönlandischen Inlandes. Berl. 1935. p. K 67-K 99. figs., tables. 26½ cm. (Handbuch der Klimatologie. Band II, Teil K.)

## Morris, William G.

Lightning storms and fires of the national forests of Oregon and Washington. Portland, Oreg. June 1934. 27 p. pls. (part phot.), tables, charts, graphs. 27 cm. (Mimeographed.)

**Petersen, Helge.**

Klima des Kanadischen archipels und Grönlands. II. Klima der Küsten von Grönland. Berl. 1935. p. K 31-K 66. figs., tables. 26½ cm. (Handbuch der Klimatologie. Band II, Teil K.)

**Poland. Państwowy instytut meteorologiczny.**

Informator lotniczo-meteorologiczny. (Guide météorologique à l'usage de la navigation aérienne.) Warszawa. 1934. 98 p. maps, tables, diagrs. 31 cm. [In Polish, with some French headings.]

**Schokalsky, J.**

Les atlas géographiques actuels et plus particulièrement l'Atlas de Stieler, 10-me édition jubilaire. (In Arctowski, H. Zbiór prac . . . 1934. p. 131-142.)

**Subow, N. N., & others.**

Oceanographical tables. Compiled by N. N. Subow, S. W. Brujewicz and Was. W. Shoulejkin. Moscow. 1931. 208 p. tables. 23 cm. (At head of title: Commissariat of agriculture of U. S. S. R. Hydro-meteorological committee of U. S. S. R. Oceanographical institute of U. S. S. R.)

**Sverdrup, H. U.**

Klima des Kanadischen Archipels und Grönlands. 1. Übersicht über das Klima des Polarmeeres und des Kanadischen Archipels. Berl. 1935. p. K 1-K 30. figs., tables. 26½ cm. (Handbuch der Klimatologie. Bd. II, Teil K.)

**Taylor, Griffith.**

The block diagram, and its ecological uses. (In Arctowski, H. Zbiór prac . . . 1934. p. 1-16.) (B. The block diagram in climatology; illustrating Mexico. p. 5-6.)

**Vitasek, Fr.**

La courbe annuelle des précipitations atmosphériques en Moravie-Silésie et les influence de la Mer Adriatique. In Arctowski, H. Zbiór prac . . . 1934. p. 404-409.)

**Vujević, P.**

L'influence du relief du sol sur le climat dans les environs de la montagne Bjelašnica. (In Arctowski, H. Zbiór prac . . . 1934. p. 377-403.)

**Witkiewicz, W. J.**

Nowy system meteorografu. (In Arctowski, H. Zbiór prac . . . 1934. p. 334-337.)

**SOLAR OBSERVATIONS****SOLAR RADIATION MEASUREMENTS DURING JANUARY 1936**

By IRVING F. HAND, Assistant in Solar Radiation Investigations

For a description of instruments employed and their exposures, the reader is referred to the January 1935 REVIEW, page 24.

Table 1 shows that solar radiation intensities averaged above normal at all three Weather Bureau stations.

Table 2 shows an excess in the amount of total solar and sky radiation at all stations with the exception of Washington, Lincoln, Twin Falls, Riverside, and Ithaca. Beginning with this issue, departures from normal will be published regularly for Ithaca and Friday Harbor in addition to the departures from normal at most of the other stations. Similar departures for Pittsburgh, La Jolla, Mount Washington, and San Juan cannot be published until sufficient records are obtained to establish normals.

Table 3 shows in general comparatively high turbidity factors for January; but, with the exception of the 13th, relatively low water-vapor content of the atmosphere on days when these measurements were made.

No polarization readings were obtained at either Washington or Madison, because of continuous snow or ice cover during the month.

TABLE 1.—*Solar radiation intensities during January 1936*

[Gram-calories per minute per square centimeter of normal surface]

**WASHINGTON, D. C.**TABLE 1.—*Solar radiation intensities during January 1936—Continued*

[Gram-calories per minute per square centimeter of normal surface]

**WASHINGTON, D. C.—Continued**

Date	Sun's zenith distance										Local mean solar time
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass									
	e	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e
Jan. 21	mm	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	mm
Jan. 23	2.06	.95	1.10	1.19	1.46	1.23	1.36	1.45	1.24	1.12	2.03
Jan. 24	.66	.85	1.08	1.30	1.46	1.46	1.46	1.46	1.24	1.12	.66
Jan. 27	.64	.85	1.08	1.30	1.46	1.46	1.46	1.46	1.24	1.12	.56
Jan. 28	.58	.68	.86	1.00	1.18	1.11	.78	1.12	1.12	1.12	.66
Means	.91	.81	.89	1.03	1.27	1.20	.99	1.00	.88	.88	1.07
Departures	+ .06	+ 0.3	+ .01	+ .03	+ .06	+ .06	+ .10	+ .07	+ .05	+ .05	-

**MADISON, WIS.**

Jan. 14	4.17	-----	.73	.85	-----	-----	-----	-----	-----	-----	4.17
Jan. 23	.23	-----	1.25	1.36	1.56	-----	-----	-----	-----	-----	.38
Jan. 24	.23	1.09	1.23	1.34	1.52	-----	-----	-----	-----	-----	.43
Jan. 30	.71	-----	-----	1.16	1.28	1.49	-----	-----	-----	-----	.81
Jan. 31	.51	-----	-----	1.16	1.28	1.49	-----	-----	-----	-----	.71
Means	(1.09)	1.09	1.09	1.21	1.46	-----	-----	-----	-----	-----	-
Departures	+ .13	+ .03	0.00	+ .11	+ .13	+ .10	+ .07	+ .05	+ .05	+ .05	-

**LINCOLN, NEBR.**

Jan. 4	1.78	1.07	1.23	1.30	-----	-----	-----	-----	-----	-----	2.16
Jan. 9	1.78	-----	1.03	1.24	-----	-----	-----	-----	-----	-----	3.00
Jan. 13	1.88	-----	.94	1.12	-----	-----	-----	-----	-----	-----	3.81
Jan. 16	1.78	-----	1.20	-----	-----	-----	-----	-----	-----	-----	1.32
Jan. 18	4.17	-----	1.15	1.27	-----	-----	-----	1.29	1.18	1.06	.79
Jan. 20	.71	.93	1.08	1.17	-----	-----	-----	-----	-----	-----	1.96
Jan. 21	1.32	-----	1.28	-----	-----	-----	-----	-----	-----	-----	.53
Jan. 22	.91	-----	1.33	-----	-----	-----	-----	1.12	.98	.80	.53
Jan. 25	.38	-----	1.24	-----	-----	-----	-----	-----	-----	-----	.96
Jan. 27	.28	-----	1.06	1.49	-----	-----	-----	-----	-----	-----	.66
Jan. 29	.48	-----	1.17	1.35	1.41	-----	1.41	1.22	1.14	1.00	.96
Jan. 30	.53	-----	1.31	1.41	1.58	-----	1.54	1.39	1.24	1.15	.86
Means	21.00x	1.13	1.25	1.49	-----	(1.48)	1.25	1.10	.98	.98	-
Departures	+ .07	+ .08	+ .06	+ .11	+ .13	+ .07	+ .05	+ .05	+ .05	+ .05	-

\* Extrapolated.

NOTE.—Since the data for Blue Hill, Mass., have not been received at the time of going to press, they will be included in the next issue of the REVIEW.

Date	Sun's zenith distance										Local mean solar time
	8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
	75th mer. time	Air mass									
	e	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e
Jan. 3	mm	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	mm
Jan. 10	6.02	-----	1.22	1.39	1.35	1.17	-----	4.37	-----	-----	-
Jan. 13	3.45	-----	-----	-----	1.18	.90	-----	3.45	-----	-----	-
Jan. 14	5.36	0.75	0.82	.94	1.03	1.01	0.92	5.36	-----	-----	-
Jan. 20	3.45	.70	.75	.99	1.24	.70	0.74	3.00	-----	-----	-
Jan. 20	1.52	.90	.96	1.10	1.41	1.37	1.14	.97	.91	1.52	-